

King County CSI Project**Juanita Bay Pump Station - Construction Cost Estimate for Alternative 4A****Upgrade Existing Pump Station with New Generator and Chemical Control Facility**

	Units	Cost / Unit	Quantity	Estimated Cost
Division 2				
Earthwork	LS	\$20,000	1	\$20,000
Landscaping and Irrigation	LS	\$15,000	1	\$15,000
Soil Erosion and Sediment Control	LS	\$4,000	1	\$4,000
Division 3				
Concrete: Slabs on Grade	CY	\$300	60	\$18,000
Division 6				
RTP Grating	SF	\$40	250	\$10,000
Division 9				
Painting and Protective Coatings	LS	\$15,000	1	\$15,000
Division 10				
Louvers and Vents	LS	\$18,000	1	\$18,000
Identification, Stenciling, and Tagging Systems	LS	\$1,000	1	\$1,000
Signage	LS	\$1,000	1	\$1,000
Fire System	LS	\$5,000	1	\$5,000
Division 11				
Equipment: Non-Clog Centrifugal - 300 HP	EA	\$70,000	4	\$280,000
Engine Generators: Diesel - 1200 kW	EA	\$120,000	1	\$120,000
Fuel Tank and ATGS	LS	\$18,000	1	\$18,000
Seal Water System	LS	\$20,000	1	\$20,000
Chemical Metering Pump and Appurtenances	EA	\$9,500	2	\$19,000
Chemical Storage Tanks	EA	\$13,500	1	\$13,500
Division 13				
Noise Attenuation Panels	SF	\$25	1,000	\$25,000
Noise Attenuators and Silencers	EA	\$8,000	4	\$32,000
Division 15				
Mechanical Cooling System for VFDs	LS	\$15,000	1	\$15,000
Seal Water System	LS	\$12,000	1	\$12,000
C1 Water System	LS	\$3,000	1	\$3,000
Float Switch Assembly - High Level Controls	LS	\$5,500	1	\$5,500
Float Switch Assembly - Low Level Switch	LS	\$4,000	1	\$4,000
Surge Control and Air Release Valving	LS	\$35,000	1	\$35,000
Wetwell HVAC Equipment	LS	\$15,000	1	\$15,000
Miscellaneous				
Superstructure: Roof, lighting, duct, finishes, etc.	SF	\$250	1,600	\$400,000
Division 16 & 17				
VFDs - 300 HP	EA	\$60,000	4	\$240,000
Automatic Transfer Switch for Generator	EA	\$40,000	1	\$40,000
Transformer	EA	\$30,000	1	\$30,000
Concrete Encasement for Conduit	LS	\$6,000	1	\$6,000
Allowance for Controls	LS	\$50,000	1	\$50,000
Miscellaneous Conduit and Cable	LS	\$40,000	1	\$40,000
SUBTOTAL				\$1,530,000
Contingency @	30%			\$459,000
SUBTOTAL				\$1,989,000

Mobilization @	5.0%			\$99,000
General Conditions @	8.8%			\$175,000
Bonds and Insurance @	3.0%			\$60,000
SUBTOTAL				\$2,323,000
Overhead and Profit @	8.5%			\$197,000
Estimated Direct Construction Cost				\$2,520,000
Sales Tax @	8.6%			\$217,000
Total Estimated Construction Cost				\$2,737,000
Allied Costs	35%			\$958,000
Easements	SF	\$5	1,000	\$5,000
Land Acquisition	SF	\$25	25,000	\$625,000
Total Estimated Project Cost				\$4,325,000

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King County CSI Project**Juanita Bay Pump Station - Construction Cost Estimate for Alternative 4B****Upgrade Existing Pump Station with New Generator and Chemical Control Facility**

	Units	Cost / Unit	Quantity	Estimated Cost
Division 2				
Earthwork	LS	\$20,000	1	\$20,000
Landscaping and Irrigation	LS	\$15,000	1	\$15,000
Soil Erosion and Sediment Control	LS	\$4,000	1	\$4,000
Division 3				
Concrete: Slabs on Grade	CY	\$300	60	\$18,000
Division 6				
RTP Grating	SF	\$40	250	\$10,000
Division 9				
Painting and Protective Coatings	LS	\$15,000	1	\$15,000
Division 10				
Louvers and Vents	LS	\$20,000	1	\$20,000
Identification, Stenciling, and Tagging Systems	LS	\$1,000	1	\$1,000
Signage	LS	\$1,000	1	\$1,000
Fire System	LS	\$5,000	1	\$5,000
Division 11				
Equipment: Non-Clog Centrifugal - 400 HP	EA	\$95,000	4	\$380,000
Engine Generators: Diesel - 1500 kW	EA	\$125,000	1	\$125,000
Fuel Tank and ATGS	LS	\$18,000	1	\$18,000
Seal Water System	LS	\$20,000	1	\$20,000
Chemical Metering Pump and Appurtenances	EA	\$9,500	2	\$19,000
Chemical Storage Tanks	EA	\$13,500	1	\$13,500
Division 13				
Noise Attenuation Panels	SF	\$25	1,000	\$25,000
Noise Attenuators and Silencers	EA	\$9,000	4	\$36,000
Division 15				
18" Discharge Header	LF	\$30	180	\$5,400
18" Pipe Fittings	EA	\$1,200	7	\$8,400
18" Discharge Header - Supports, connect, etc. .	LS	\$10,000	1	\$10,000
Mechanical Cooling System for VFDs	LS	\$15,000	1	\$15,000
Seal Water System	LS	\$12,000	1	\$12,000
C1 Water System	LS	\$3,000	1	\$3,000
Float Switch Assembly - High Level Controls	LS	\$5,500	1	\$5,500
Float Switch Assembly - Low Level Switch	LS	\$4,000	1	\$4,000
Surge Control and Air Release Valving	LS	\$35,000	1	\$35,000
Wetwell HVAC Equipment	LS	\$15,000	1	\$15,000
Miscellaneous				
Superstructure: Roof, lighting, duct, finishes, etc.	SF	\$250	1,800	\$450,000
Division 16 & 17				
VFDs - 400 HP	EA	\$80,000	4	\$320,000
Automatic Transfer Switch for Generator	EA	\$40,000	1	\$40,000
Transformer	EA	\$30,000	1	\$30,000
Concrete Encasement for Conduit	LS	\$6,000	1	\$6,000
Allowance for Controls	LS	\$50,000	1	\$50,000
Miscellaneous Conduit and Cable	LS	\$40,000	1	\$40,000
SUBTOTAL				\$1,794,800

Contingency @	30%			\$538,000
SUBTOTAL				\$2,332,800
Mobilization @	5.0%			\$117,000
General Conditions @	8.8%			\$205,000
Bonds and Insurance @	3.0%			\$70,000
SUBTOTAL				\$2,725,000
Overhead and Profit @	8.5%			\$232,000
Estimated Direct Construction Cost				\$2,957,000
Sales Tax @	8.6%			\$254,000
Total Estimated Construction Cost				\$3,211,000
Allied Costs	35%			\$1,124,000
Easements	SF	\$5	1,000	\$5,000
Land Acquisition	SF	\$25	25,000	\$625,000
Total Estimated Project Cost				\$4,965,000